

Camp Navajo  
Stakeholder Advisory Group

Thursday, October 12, 2006  
Flagstaff, AZ  
Camp Navajo  
Bellemont, AZ

**Minutes**

**Members in attendance:**

Stacy Duffy, ADEQ  
LTC Adrian Nagel, Camp Navajo (20 minutes)  
Lee Luedeker, AGFD  
Karen Underhill, Community member  
Randy Wilkinson, NGB  
Tina Williams, Coconino National Forest

**Members absent:**

Tom Britt, community member  
Shannon Clark, Coconino National Forest  
Shaula Hedwall, USFWS  
Christine Krosnicki, City of Flagstaff  
Glenn Morrison, community member

**Interested Parties:**

Gavin Fielding, ADEMA/AZARNG  
Environmental (by telephone)  
Carrie Marr, USFWS (by telephone)

**Guests:**

Kate Anthony MKM Engineers  
Misael Cabera, AMEC  
Dana Downs-Heimes, CH2MHill  
Ken Greene, CH2MHill  
Kim Harriz, AMEC  
John Kim, Brown & Caldwell  
Tim Lanz, TB Consulting  
Rex Long, CH2MHill  
Marty Rozelle, The Rozelle Group  
Scott Veenstra, AMEC  
Pat Wiegand, Brown & Caldwell

The following acronyms may be used throughout this document

ADEMA	Arizona Department of Emergency and Military Affairs
ADEQ	Arizona Department of Environmental Quality
AGFD	Arizona Game & Fish Department
AZARNG	Arizona Army National Guard
BRAC	Base Realignment and Closure
CDC	Contained Detonation Chamber
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COPC	Contaminants of Potential Concern
EDMS	Electronic Data Management System
ERA	Ecological Risk Assessment
FOASA	Former Open Air Storage Area
FSP	Field Sampling Plan
FWPDBA	Former White Phosphorous Detonation and Burn Area (Chemical Canyon)
HHRA	Human Health Risk Assessment
IRP	Installation Restoration Program
HERA	Human Health & Ecological Risk Assessment
LTM	Long Term Management
MAP	Management Action Plan
MD	Munitions Debris
MEC	Munitions and Explosives of Concern
MWP	Master Work Plan
NAAD	Navajo Army Depot

NAU	Northern Arizona University
NGB	National Guard Bureau
OB/OD	Open Burn/Open Detonation
ORS	Ordnance Related Scrap
PBC	Performance Based Contract
ppb	parts per billion
QAPP	Quality Assurance Project Plan
RCRA	Resource Conservation and Recovery Act
RC	Response Complete
RI/FS	Remedial Investigation/Feasibility Study
RIP	Remedy in Place
SAG	Stakeholder Advisory Group
SSHP	Site Safety and Health Plan
USACHPPM	U.S. Army Center for Health Promotion and Preventive Medicine
USFWS	U.S. Fish & Wildlife Service
USGS	U.S. Geological Survey
UXO	Unexploded Ordnance
WMM	Waste Military Munitions

The following matters were discussed, recommended, and/or decided.

#### **1. *Welcome, Introductions and Announcements***

- Lee introduced LTC Adrian Nagel, the new Garrison Commander. LTC Nagel joined the AZARNG while attending Northern Arizona University. He served with the: AZARNG from 1986-1995; New Mexico Army National Guard from 1995-2001; National Guard Bureau (NGB) from 2001-2004; and as a member of the Army Staff in the Pentagon for the Assistant Secretary of the Army Installations and Environment (ASA IE) from 2004-2006.
- Lee asked SAG members if they would be interested in taking a field trip to see the on-ground improvements and remedial actions. The response was positive and will be discussed at the next SAG meeting.
- Lee asked if the remediation plan addresses discarded fence wire in the footprint areas. He showed photos of a recent incident with an elk getting tangled in the wire. There have been past incidents as well. Ken Greene said that when wire is encountered in the field, it is consolidated in certain areas to be retrieved later. Randy said this was an Installation-wide condition. While it is not a part of the remediation plan, everyone does what they can to remove it. Randy will talk with Tom Parker to determine if there is more that can be done.

#### **2. *Status of Decision Documents and Public Comment***

Randy summarized the status of several draft Decision Documents (DD) with regard to the public comment. Several DDs previously issued in draft format for ADEQ and public comment are being revised to incorporate additional information requested by ADEQ. However, this does not change the closure determination, so no additional public comment periods are required for these DDs.

NAAD Site	Site Name	Public Comment Period (2006)
03	Former White Phosphorous Detonation and Burn Area	Comment Period Closed – no comments received
08B	Former Open Burn Area	
09D	Current Open Burn Area	
10	Pad #3	
13	Deactivation Furnace (Building 334), Ash Disposal Pile, and Waste Ash Storage Room within Building 325.	

NAAD Site	Site Name	Public Comment Period (2006)
E-76	Potential Mustard Round Burial Site	October 2 – November 1
08A	Former Open Burn Area (Ponds)	Begins October 30
09A	Closed Open Burn Area	

### 3. OB/OD Area Program Update

Randy reviewed the strategy and the status of OB/OD Area site closures. The NGB is using the CERCLA risk-based process to investigate, remediate, and close out all OB/OD Area sites. Sites with MECs are almost impossible to clean up completely. ADEQ prefers that a post-closure permit process be followed, which includes requirements for long-term management of the site, five-year reviews, inspection, and maintenance. More discussions will occur.

- NAAD 02 – lead-contaminated soil removal action is underway.
- Surface and ground water characterization – 2<sup>nd</sup> annual report. Obtained data for regional aquifer and local wells in OB/OD Area and due to the rainy season the surface water sampling was good. Some metals are present but do not appear to be migrating off site.
- NAAD 09C Removal Action Report–Randy showed photos of the scrap segregation process. Approximately 150,000 pounds of metal was shredded and sent to recycling. The remaining soil stockpile of 12,000 cubic yards still contains metal debris and may contain MEC. The soil is clay and hard to screen. A final decision on how to dispose of this soil is pending.
- Cultural Resources – Phase 2 Treatment Plan and Draft Memorandum of Agreement. The MEC must be removed before additional cultural resource investigations can be completed.
- Natural Resources – AZARNG drafting a programmatic biological assessment for the OB/OD Area.
- Human Health and Ecological Risk Assessments – USFWS to review the Ecological Risk Assessments in the following order - NAADs 07, 04, 01, followed by NAADs 02, 05, and 06.
- Future Land Use Designation – a strategic planning meeting will be held on October 13 and senior level AZARNG staff will address the plan for the future of Camp Navajo. NGB Training Division asked for an updated range development plan from AZARNG. Once the types of needed ranges are identified and justified, it is determined where in the state they should be located.

The following table summarizes the status of all sites as of October 12, 2006. Blue text indicates a change from the status presented at the July SAG meeting.

Site	Type	Fieldwork	Report/RSE	HRA	ERA	DD
01	IRP	Complete	Draft	___	Draft	
02	RCRA	IRA <u>underway</u>	Draft	Future	Future	
03	IRP	Complete	Final	___	Final	Draft
04	IRP	Complete	Final	___	Draft	
05	RCRA	Complete	Final	<u>Draft</u>	<u>Draft</u>	
06	RCRA	Complete	Final	Draft	Draft	
07	IRP	Complete	Final	Draft	Draft	
08A	IRP	Complete	Final	___	Final	
08B	RCRA	Complete	Final	Final	Final	<u>Rev Draft</u>

Site	Type	Fieldwork	Report/RSE	HRA	ERA	DD
09A	IRP	Complete	Final	___	Final	
09C	RCRA	Complete	Final	___	___	Final
09D	RCRA	Complete	Final	___	Final	Rev Draft
10	IRP	Complete	Final	___	Final	Rev Draft
13	RCRA	Complete	Final	Final	___	Draft
20	IRP	Complete	Final	Final	___	
E76	IRP	Complete	Final	___	___	Draft

#### 4. MEC Characterization Project Update

Dana Downs-Heimes, CH2MHill, provided an update of the MEC characterization project. They began field work on May 9, 2006, and are currently implementing the Site Specific Work Plan per the information identified in the Data Gap Analysis.

Munitions Debris investigations were completed in late June at the following sites:

- NAAD 01 – 40 of 40 grid cells
- NAAD 02/03 – 57 of 57 grid cells
- NAAD 20 – 32 of 32 grid cells

The secondary source areas are represented by MEC that has been potentially scattered over a wide area as a result of kick-outs during detonation activities.

- NAAD 01 – investigated 23 of 23 of the 2005 grid cells and 74 of 96 of the 2006 grid cells
- NAAD 02/03 – investigated 52 of 52 of the 2005 grid cells and 66 of 102 of the 2006 grid cells
- 16 MEC items recovered from NAAD 01 secondary MEC source areas
- 260 MEC items recovered from NAAD 02/03 secondary MEC source areas

The primary source areas are those in which MEC may be found as a concentrated mass, such as former detonation pits, trenches, earthen mounds or other burial features. The status of the investigation is:

- NAAD 01 – 8 of 9 source areas investigated
- NAAD 02 – 2 of 11 source areas investigated – these areas are taking longer as there are more munitions debris and other metal scrap to manage
- NAAD 03 – Geophysical survey completed, potential source areas identified
- NAAD 20 – 0 of 2 source areas investigated – pending access after hunting season
- 4 MEC items recovered from NAAD 01 primary MEC source areas
- 9 MEC items recovered from NAAD 02/03 primary MEC source areas. Five items were found at a depth of more than 10 feet, which may be indicative of how much the surface area within the interior of NAAD 02 has been re-worked in the past.

Soil and casing samples have been collected as part of the corrosion study. Once the paperwork for item certification has been finalized, the casing samples will be consolidated at a central location within the OB/OD Area pending arrival of the mobile testing laboratory.

The MEC and MD are being consolidated by hand. MD consolidation, especially in grid cells located in the interior of NAAD 01 and NAAD 0203, has proven to be labor-intensive.

- 20 MEC items recovered and consolidated from NAAD 01, and approximately 29,500 pounds of MD were consolidated.

- 269 MEC items recovered and consolidated from NAAD 02/03, and approximately 81,000 pounds of MD were consolidated.
- 2 MEC items recovered and consolidated from NAAD 20, and approximately 500 pounds of MD consolidated.

The draft report will be delivered to NGB in December 2006 and will include the MEC Hazard Assessment. All field work is anticipated to be completed the end of November.

#### **5. *Call to the Public***

No one from the public was present.

#### **6. *Next Meetings***

The group decided to meet three times a year instead of quarterly. The meetings for 2007 will be: February 8, June 14 (evening) and October 11. A field trip in the afternoon of the June meeting will be planned.